

Appl. No. 09/891,138  
Amdt. dated October 15, 2003  
Reply to Office Action of April 15, 2003

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) An isolated nucleic acid encoding a G-protein coupled receptor polypeptide that transduces an increase in intracellular calcium, the nucleic acid encoding a polypeptide comprising at least 25 contiguous amino acids of SEQ ID NO:2.
2. (previously presented) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a polypeptide comprising at least 50 contiguous amino acids of SEQ ID NO:2.
3. (currently amended) The isolated nucleic acid of claim 1, wherein the nucleic acid encodes a polypeptide comprising at least 100 200 contiguous amino acids of SEQ ID NO:2.
4. (cancelled)
5. (currently amended) The isolated nucleic acid of claim 1, wherein the nucleic acid selectively hybridizes to SEQ ID NO:1 under stringent hybridization conditions comprising 50% formamide, 5 X SSC, and 1% SDS; and wash conditions comprising 0.2X SSC and 0.1% SDS at 65° encodes a polypeptide that has G-protein coupled receptor activity.
6. (currently amended) The An isolated nucleic acid of claim 1, wherein the nucleic acid encodes encoding a polypeptide comprising an amino acid sequence of SEQ ID NO:2.
7. (currently amended) The isolated nucleic acid of claim + 6, wherein the nucleic acid comprises the nucleotide sequence of SEQ ID NO:1.

Appl. No. 09/891,138  
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PATENT

8-12 (cancelled)

13. (currently amended) An isolated nucleic acid encoding a G-protein coupled receptor polypeptide that transduces an increase in intracellular calcium, wherein the nucleic acid encodes a polypeptide comprising ~~greater than~~ 90% or greater amino acid identity to the ~~an~~ amino acid sequence of SEQ ID NO:2.

14. (cancelled)

15. (currently amended) The isolated nucleic acid of claim 13, wherein the nucleic acid encodes a polypeptide comprising at least 95% amino acid identity to the amino acid sequence of SEQ ID NO:2 that has G-protein coupled receptor activity.

16-17 (cancelled)

18. (currently amended) An isolated nucleic acid encoding a G-protein coupled receptor polypeptide that transduces an increase in intracellular calcium, the polypeptide ~~encoded by the nucleic acid~~ comprising greater than about 90% amino acid identity to a polypeptide having an amino acid sequence of SEQ ID NO:2, wherein the nucleic acid selectively hybridizes to SEQ ID NO:1 under stringent hybridization conditions comprising 50% formamide, 5 X SSC, and 1% SDS and wash conditions comprising 0.2X SSC and 0.1% SDS at 65° to a nucleotide sequence of SEQ ID NO:1.

19-29 (cancelled)

30. (currently amended) An expression vector comprising the nucleic acid of any one of claims 1, 6, 7, 13, or 18.

31. (original) A host cell transfected with the vector of claim 30.

Appl. No. 09/891,138  
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PATENT

32-67 (cancelled)